

CALPOST Version 6.221 Level 080724

Internal Coordinate Transformations by --- COORDLIB Version: 1.99 Level: 070921

Run Title:

Cleco, Brame Energy Center, Rodemacher II
BRETON WILDERNESS AREA CALPOST 2001
VISIBILITY METHOD 8

INPUT GROUP: 1 -- General run control parameters

Option to run all periods found
in the met. file(s) (METRUN) Default: 0 ! METRUN = 1 !

METRUN = 0 - Run period explicitly defined below
METRUN = 1 - Run all periods in CALPUFF data file(s)

Starting date: Year (ISYR) -- No default !ISYR = 2001 !
Month (ISMO) -- No default !ISMO = 1 !
Day (ISDY) -- No default !ISDY = 1 !
Starting time: Hour (ISHR) -- No default !ISHR = 0 !
Minute (ISMIN) -- No default !ISMIN = 0 !
Second (ISSEC) -- No default !ISSEC = 0 !

Ending date: Year (IEYR) -- No default !IEYR = 2001 !
Month (IEMO) -- No default !IEMO = 12 !
Day (IEDY) -- No default !IEDY = 31 !
Ending time: Hour (IEHR) -- No default !IEHR = 0 !
Minute (IEMIN) -- No default !IEMIN = 0 !
Second (IESEC) -- No default !IESEC = 0 !

(These are only used if METRUN = 0)

All times are in the base time zone of the CALPUFF simulation.
CALPUFF Dataset Version 2.1 contains the zone, but earlier versions
do not, and the zone must be specified here. The zone is the
number of hours that must be ADDED to the time to obtain UTC (or GMT).
Identify the Base Time Zone for the CALPUFF simulation
(BTZONE) -- No default !BTZONE = 6.0 !

Process every period of data?
(NREP) -- Default: 1 !NREP = 1 !
(1 = every period processed,
2 = every 2nd period processed,

5 = every 5th period processed, etc.)

Species & Concentration/Deposition Information

Species to process (ASPEC) -- No default ! ASPEC = VISIB !
(ASPEC = VISIB for visibility processing)

Layer/deposition code (ILAYER) -- Default: 1 ! ILAYER = 1 !
'1' for CALPUFF concentrations,
'-1' for dry deposition fluxes,
'-2' for wet deposition fluxes,
'-3' for wet+dry deposition fluxes.

Scaling factors of the form: -- Defaults: ! A = 0.0 !
 $X(\text{new}) = X(\text{old}) * A + B$ A = 0.0 ! B = 0.0 !
(NOT applied if A = B = 0.0) B = 0.0

Add Hourly Background Concentrations/Fluxes?
(LBACK) -- Default: F ! LBACK = F !

Source of NO2 when ASPEC=NO2 (above) or LVNO2=T (Group 2) may be from CALPUFF NO2 concentrations OR from a fraction of CALPUFF NOx concentrations. Specify the fraction of NOx that is treated as NO2 either as a constant or as a table of fractions that depend on the magnitude of the NOx concentration:

(NO2CALC) -- Default: 1 ! NO2CALC = 1 !
0 = Use NO2 directly (NO2 must be in file)
1 = Specify a single NO2/NOx ratio (RNO2NOX)
2 = Specify a table NO2/NOx ratios (TNO2NOX)
(NOTE: Scaling Factors must NOT be used with NO2CALC=2)

Single NO2/NOx ratio (0.0 to 1.0) for treating some or all NOx as NO2, where [NO2] = [NOX] * RNO2NOX
(used only if NO2CALC = 1)
(RNO2NOX) -- Default: 1.0 ! RNO2NOX = 1.0 !

Table of NO2/NOx ratios that vary with NOx concentration.
Provide 14 NOx concentrations (ug/m**3) and the corresponding NO2/NOx ratio, with NOx increasing in magnitude. The ratio used for a particular NOx concentration is interpolated from the values provided in the table. The ratio for the smallest tabulated NOx concentration (the first) is used for all NOx concentrations less than the smallest tabulated value, and the ratio for the largest tabulated NOx concentration (the last) is used for all NOx concentrations greater than the largest tabulated value.
(used only if NO2CALC = 2)

NOx concentration(ug / m3)
(CNOX) -- No default
! CNOX = 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0,
8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0 !

NO2/NOx ratio for each NOx concentration:
(TNO2NOX) -- No default

```
! TNO2NOX = 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,  
    1.0, 1.0, 1.0, 1.0, 1.0, 1.0 !
```

Source information

Option to process source contributions:

- 0 = Process only total reported contributions
 - 1 = Sum all individual source contributions and process
 - 2 = Run in TRACEBACK mode to identify source contributions at a SINGLE receptor
- (MSOURCE) -- Default: 0 ! MSOURCE = 0 !

Plume Model Output Processing Options

Output from models other than CALPUFF and CALGRID can be written in the CONC.DAT format and processed by CALPOST. Plume models such as AERMOD typically do not treat CALM hours, and do not include such hours in multiple-hour averages, with specific rules about how many calm hours can be removed from an average. This treatment is known as CALM PROCESSING. Calm periods are identified from wind speeds in the meteorological data file for the application, which must be identified in Input Group 0 as the single-point meteorological data file MET1DAT.

- 0 = Option is not used for CALPUFF/CALGRID output files
 - 1 = Apply CALM processing procedures to multiple-hour averages
- (MCALMPRO) -- Default: 0 ! MCALMPRO = 0 !

Format of Single-point Met File

- 1 = AERMOD/AERMET SURFACE file
- (MET1FMT) -- Default: 1 ! MET1FMT = 1 !

Receptor information

Gridded receptors processed? (LG) -- Default: F ! LG = F !

Discrete receptors processed? (LD) -- Default: F ! LD = T !

CTSG Complex terrain receptors processed?

(LCT) -- Default: F ! LCT = F !

--Report results by DISCRETE receptor RING?

(only used when LD = T) (LDRING) -- Default: F ! LDRING = F !

--Select range of DISCRETE receptors (only used when LD = T):

Select ALL DISCRETE receptors by setting NDRECP flag to -1;

OR

Select SPECIFIC DISCRETE receptors by entering a flag (0,1) for each

0 = discrete receptor not processed

1 = discrete receptor processed

using repeated value notation to select blocks of receptors:

23*1, 15*0, 12*1

Flag for all receptors after the last one assigned is set to 0

(NDRECP) -- Default: -1
! NDRECP = 80*0, 40*1!

--Select range of GRIDDED receptors (only used when LG = T):

X index of LL corner (IBGRID) -- Default: -1 ! IBGRID = -1 !
(-1 OR 1 <= IBGRID <= NX)

Y index of LL corner (JBGRID) -- Default: -1 ! JBGRID = -1 !
(-1 OR 1 <= JBGRID <= NY)

X index of UR corner (IEGRID) -- Default: -1 ! IEGRID = -1 !
(-1 OR 1 <= IEGRID <= NX)

Y index of UR corner (JEGRID) -- Default: -1 ! JEGRID = -1 !
(-1 OR 1 <= JEGRID <= NY)

Note: Entire grid is processed if IBGRID=JBGRID=IEGRID=JEGRID=-1

--Specific gridded receptors can also be excluded from CALPOST processing by filling a processing grid array with 0s and 1s. If the processing flag for receptor index (i,j) is 1 (ON), that receptor will be processed if it lies within the range delineated by IBGRID, JBGRID,IEGRID,JEGRID and if LG=T. If it is 0 (OFF), it will not be processed in the run. By default, all array values are set to 1 (ON).

Number of gridded receptor rows provided in Subgroup (1a) to identify specific gridded receptors to process
(NGONOFF) -- Default: 0 ! NGONOFF = 0 !

!END!

Subgroup (1a) -- Specific gridded receptors included/excluded

Specific gridded receptors are excluded from CALPOST processing by filling a processing grid array with 0s and 1s. A total of NGONOFF lines are read here. Each line corresponds to one 'row' in the sampling grid, starting with the NORTHERNMOST row that contains receptors that you wish to exclude, and finishing with row 1 to the SOUTH (no intervening rows may be skipped). Within a row, each receptor position is assigned either a 0 or 1, starting with the westernmost receptor.

0 = gridded receptor not processed
1 = gridded receptor processed

Repeated value notation may be used to select blocks of receptors:
23*1, 15*0, 12*1

Because all values are initially set to 1, any receptors north of the first row entered, or east of the last value provided in a row, remain ON.

(NGXRECP) -- Default: 1

INPUT GROUP: 2 -- Visibility Parameters (ASPEC = VISIB)

Test visibility options specified to see
if they conform to FLAG 2008 configuration?

(MVISCHECK) -- Default: 1 ! MVISCHECK = 1 !

0 = NO checks are made

1 = Technical options must conform to FLAG 2008 visibility guidance

ASPEC = VISIB

LVNO2 = T

NO2CALC = 1

RNO2NOX = 1.0

MVISBK = 8

M8_MODE = 5

Some of the data entered for use with the FLAG 2008 configuration
are specific to the Class I area being evaluated. These values can
be checked within the CALPOST user interface when the name of the
Class I area is provided.

Name of Class I Area (used for QA purposes only)

(AREANAME) -- Default: User ! AREANAME = BRET !

Particle growth curve f(RH) for hygroscopic species

(MFRH) -- Default: 4 ! MFRH = 4 !

1 = IWAQM (1998) f(RH) curve (originally used with MVISBK=1)

2 = FLAG (2000) f(RH) tabulation

3 = EPA (2003) f(RH) tabulation

4 = IMPROVE (2006) f(RH) tabulations for sea salt, and for small and
large SULFATE and NITRATE particles;

Used in Visibility Method 8 (MVISBK = 8 with M8_MODE = 1, 2, or 3)

Maximum relative humidity (%) used in particle growth curve

(RHMAX) -- Default: 98 ! RHMAX = 95 !

Modeled species to be included in computing the light extinction

Include SULFATE? (LVS04) -- Default: T ! LVS04 = T !

Include NITRATE? (LVNO3) -- Default: T ! LVNO3 = T !

Include ORGANIC CARBON? (LVOC) -- Default: T ! LVOC = T !

Include COARSE PARTICLES? (LVMPC) -- Default: T ! LVMPC = T !

Include FINE PARTICLES? (LVMF) -- Default: T ! LVMF = T !

Include ELEMENTAL CARBON? (LVEC) -- Default: T ! LVEC = T !

Include NO2 absorption? (LVNO2) -- Default: F ! LVNO2 = T !

With Visibility Method 8 -- Default: T

FLAG (2008)

And, when ranking for TOP-N, TOP-50, and Exceedance tables,

Include BACKGROUND? (LVBK) -- Default: T ! LVBK = T !

Species name used for particulates in MODEL.DAT file
COARSE (SPECPMC) -- Default: PMC ! SPECPMC = PMC !
FINE (SPECPMF) -- Default: PMF ! SPECPMF = PMF !

Extinction Efficiency (1/Mm per ug/m**3)

MODELED particulate species:

PM COARSE (EEPNC) -- Default: 0.6 ! EEPNC = 0.6 !
PM FINE (EEPNF) -- Default: 1.0 ! EEPNF = 1 !

BACKGROUND particulate species:

PM COARSE (EPMCBK) -- Default: 0.6 ! EPMCBK = 0.6 !

Other species:

AMMONIUM SULFATE (EESO4) -- Default: 3.0 ! EESO4 = 3 !
AMMONIUM NITRATE (EENO3) -- Default: 3.0 ! EENO3 = 3 !
ORGANIC CARBON (EEOC) -- Default: 4.0 ! EEOC = 4 !
SOIL (EESOIL) -- Default: 1.0 ! EESOIL = 1 !
ELEMENTAL CARBON (EEECC) -- Default: 10. ! EEECC = 10 !
NO2 GAS (EENO2) -- Default: .1755 ! EENO2 = 0.1755 !

Visibility Method 8:

AMMONIUM SULFATE (EESO4S) Set Internally (small)
AMMONIUM SULFATE (EESO4L) Set Internally (large)
AMMONIUM NITRATE (EENO3S) Set Internally (small)
AMMONIUM NITRATE (EENO3L) Set Internally (large)
ORGANIC CARBON (EEOCS) Set Internally (small)
ORGANIC CARBON (EEOCL) Set Internally (large)
SEA SALT (EESALT) Set Internally

Background Extinction Computation

Method used for the 24h-average of percent change of light extinction:
Hourly ratio of source light extinction / background light extinction
is averaged? (LAVER) -- Default: F ! LAVER = F !

Method used for background light extinction

(MVISBK) -- Default: 8 ! MVISBK = 8 !
FLAG (2008)

- 1 = Supply single light extinction and hygroscopic fraction
 - Hourly F(RH) adjustment applied to hygroscopic background and modeled sulfate and nitrate
- 2 = Background extinction from speciated PM concentrations (A)
 - Hourly F(RH) adjustment applied to observed and modeled sulfate and nitrate
 - F(RH) factor is capped at F(RHMAX)
- 3 = Background extinction from speciated PM concentrations (B)
 - Hourly F(RH) adjustment applied to observed and modeled sulfate and nitrate
 - Receptor-hour excluded if RH>RHMAX
 - Receptor-day excluded if fewer than 6 valid receptor-hours
- 4 = Read hourly transmissometer background extinction measurements
 - Hourly F(RH) adjustment applied to modeled sulfate and nitrate
 - Hour excluded if measurement invalid (missing, interference, or large RH)
 - Receptor-hour excluded if RH>RHMAX

- Receptor-day excluded if fewer than 6 valid receptor-hours
- 5 = Read hourly nephelometer background extinction measurements
- Rayleigh extinction value (BEXTRAY) added to measurement
 - Hourly F(RH) adjustment applied to modeled sulfate and nitrate
 - Hour excluded if measurement invalid (missing, interference, or large RH)
 - Receptor-hour excluded if RH>RHMAX
 - Receptor-day excluded if fewer than 6 valid receptor-hours
- 6 = Background extinction from speciated PM concentrations
- FLAG (2000) monthly RH adjustment factor applied to observed and modeled sulfate and nitrate
- 7 = Use observed weather or prognostic weather information for background extinction during weather events; otherwise, use Method 2
- Hourly F(RH) adjustment applied to modeled sulfate and nitrate
 - F(RH) factor is capped at F(RHMAX)
 - During observed weather events, compute Bext from visual range if using an observed weather data file, or
 - During prognostic weather events, use Bext from the prognostic weather file
 - Use Method 2 for hours without a weather event
- 8 = Background extinction from speciated PM concentrations using the IMPROVE (2006) variable extinction efficiency formulation (MFRH must be set to 4)
- Split between small and large particle concentrations of SULFATES, NITRATES, and ORGANICS is a function of concentration and different extinction efficiencies are used for each
 - Source-induced change in visibility includes the increase in extinction of the background aerosol due to the change in the extinction efficiency that now depends on total concentration.
 - Fsmall(RH) and Flarge(RH) adjustments for small and large particles are applied to observed and modeled sulfate and nitrate concentrations
 - Fsalt(RH) adjustment for sea salt is applied to background sea salt concentrations
 - F(RH) factors are capped at F(RHMAX)
 - RH for Fsmall(RH), Flarge(RH), and Fsalt(RH) may be obtained from hourly data as in Method 2 or from the FLAG monthly RH adjustment factor used for Method 6 where EPA F(RH) tabulation is used to infer RH, or monthly Fsmall, Flarge, and Fsalt RH adjustment factors can be directly entered.
 - Furthermore, a monthly RH factor may be applied to either hourly concentrations or daily concentrations to obtain the 24-hour extinction.

These choices are made using the M8_MODE selection.

Additional inputs used for MVISBK = 1:

Background light extinction (1/Mm)
 (BEXTBK) -- No default ! BEXTBK = 12 !
 Percentage of particles affected by relative humidity
 (RHFRC) -- No default ! RHFRC = 10 !

Additional inputs used for MVISBK = 6,8:

Extinction coefficients for hygroscopic species (modeled and background) are computed using a monthly RH adjustment factor

in place of an hourly RH factor (VISB.DAT file is NOT needed).
Enter the 12 monthly factors here (RHFAC). Month 1 is January.

(RHFAC) -- No default ! RHFAC = 3.5, 3.3, 3.3, 3.3,
3.4, 3.6, 3.8, 3.8,
3.6, 3.4, 3.4, 3.5 !

Additional inputs used for MVISBK = 7:

The weather data file (DATSAV abbreviated space-delimited) that
is identified as VSRN.DAT may contain data for more than one
station. Identify the stations that are needed in the order in
which they will be used to obtain valid weather and visual range.
The first station that contains valid data for an hour will be
used. Enter up to MXWSTA (set in PARAMS file) integer station IDs
of up to 6 digits each as variable IDWSTA, and enter the corresponding
time zone for each, as variable TZONE (= UTC-LST).

A prognostic weather data file with Bext for weather events may be used
in place of the observed weather file. Identify this as the VSRN.DAT
file and use a station ID of IDWSTA = 999999, and TZONE = 0.

NOTE: TZONE identifies the time zone used in the dataset. The
DATSAV abbreviated space-delimited data usually are prepared
with UTC time rather than local time, so TZONE is typically
set to zero.

(IDWSTA) -- No default * IDWSTA = 000000 *
(TZONE) -- No default * TZONE = 0. *

Additional inputs used for MVISBK = 2,3,6,7,8:

Background extinction coefficients are computed from monthly
CONCENTRATIONS of ammonium sulfate (BKSO4), ammonium nitrate (BKNO3),
coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and
elemental carbon (BKEC). Month 1 is January.
(ug/m**3)

(BKSO4) -- No default ! BKSO4 = 0.23, 0.23, 0.23, 0.23,
0.23, 0.23, 0.23,
0.23, 0.23, 0.23 !
(BKNO3) -- No default ! BKNO3 = 0.10, 0.10, 0.10, 0.10,
0.10, 0.10, 0.10,
0.10, 0.10, 0.10 !
(BKPMC) -- No default ! BKPMC = 3.01, 3.01, 3.01, 3.01,
3.01, 3.01, 3.01,
3.01, 3.01, 3.01 !
(BKOC) -- No default ! BKOC = 1.78, 1.78, 1.78, 1.78,
1.78, 1.78, 1.78,
1.78, 1.78, 1.78 !
(BKSOIL) -- No default ! BKSOIL= 0.48, 0.48, 0.48, 0.48,
0.48, 0.48, 0.48,
0.48, 0.48, 0.48 !
(BKEC) -- No default ! BKEC = 0.02, 0.02, 0.02, 0.02,
0.02, 0.02, 0.02,
0.02, 0.02, 0.02 !

Additional inputs used for MVISBK = 8:

Extinction coefficients for hygroscopic species (modeled and background) may be computed using hourly RH values and hourly modeled concentrations, or using monthly RH values inferred from the RHFAC adjustment factors and either hourly or daily modeled concentrations, or using monthly RHFSML, RHFLRG, and RHFSEA adjustment factors and either hourly or daily modeled concentrations.

(M8_MODE) -- Default: 5 ! M8_MODE= 5 !
FLAG (2008)

- 1 = Use hourly RH values from VISB.DAT file with hourly modeled and monthly background concentrations.
- 2 = Use monthly RH from monthly RHFAC and EPA (2003) f(RH) tabulation with hourly modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).
- 3 = Use monthly RH from monthly RHFAC with EPA (2003) f(RH) tabulation with daily modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).
- 4 = Use monthly RHFSML, RHFLRG, and RHFSEA with hourly modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).
- 5 = Use monthly RHFSML, RHFLRG, and RHFSEA with daily modeled and monthly background concentrations.
(VISB.DAT file is NOT needed).

Background extinction coefficients are computed from monthly CONCENTRATIONS of sea salt (BKSALT). Month 1 is January.
(ug/m**3)

(BKSALT) -- No default ! BKSALT= 0.19, 0.19, 0.19, 0.19,
0.19, 0.19, 0.19, 0.19,
0.19, 0.19, 0.19, 0.19 !

Extinction coefficients for hygroscopic species (modeled and background) can be computed using monthly RH adjustment factors in place of an hourly RH factor (VISB.DAT file is NOT needed).
Enter the 12 monthly factors here (RHFSML,RHFLRG,RHFSEA).
Month 1 is January. (Used if M8_MODE = 4 or 5)

Small ammonium sulfate and ammonium nitrate particle sizes
(RHFSML) -- No default ! RHFSML= 4.08, 3.82, 3.79, 3.74,
3.94, 4.12, 4.41, 4.37,
4.18, 3.92, 3.93, 4.06 !

Large ammonium sulfate and ammonium nitrate particle sizes
(RHFLRG) -- No default ! RHFLRG= 2.91, 2.76, 2.74, 2.72,
2.83, 2.94, 3.10, 3.07,
2.97, 2.82, 2.83, 2.90 !

Sea salt particles
(RHFSEA) -- No default ! RHFSEA= 4.10, 3.89, 3.87, 3.85,
4.02, 4.21, 4.44, 4.38,

4.23, 3.99, 4.01, 4.11 !

Additional inputs used for MVISBK = 2,3,5,6,7,8:

Extinction due to Rayleigh scattering is added (1/Mm)
(BEXTRAY) -- Default: 10.0 ! BEXTRAY = 11 !

!END!

INPUT GROUP: 3 -- Output options

Documentation

Documentation records contained in the header of the
CALPUFF output file may be written to the list file.

Print documentation image?
(LDOC) -- Default: F ! LDOC = F !

Output Units

Units for All Output (IPRTU) -- Default: 1 ! IPRTU = 3 !
for for
Concentration Deposition
1 = g/m**3 g/m**2/s
2 = mg/m**3 mg/m**2/s
3 = ug/m**3 ug/m**2/s
4 = ng/m**3 ng/m**2/s
5 = Odour Units

Visibility: extinction expressed in 1/Mega-meters (IPRTU is ignored)

Averaging time(s) reported

1-pd averages (L1PD) -- Default: T ! L1PD = F !
(pd = averaging period of model output)

1-hr averages (L1HR) -- Default: T ! L1HR = F !

3-hr averages (L3HR) -- Default: T ! L3HR = F !

24-hr averages (L24HR) -- Default: T ! L24HR = T !

Run-length averages (LRUNL) -- Default: T ! LRUNL = F !

User-specified averaging time in hours, minutes, seconds
- results for this averaging time are reported if it is not zero

(NAVGH) -- Default: 0 ! NAVGH = 0 !
(NAVGM) -- Default: 0 ! NAVGM = 0 !
(NAVGS) -- Default: 0 ! NAVGS = 0 !

Types of tabulations reported

- 1) Visibility: daily visibility tabulations are always reported for the selected receptors when ASPEC = VISIB.
In addition, any of the other tabulations listed below may be chosen to characterize the light extinction coefficients.
[List file or Plot/Analysis File]

- 2) Top 50 table for each averaging time selected
[List file only]
(LT50) -- Default: T ! LT50 = F !

- 3) Top 'N' table for each averaging time selected
[List file or Plot file]
(LTOPN) -- Default: F ! LTOPN = F !
 - Number of 'Top-N' values at each receptor selected (NTOP must be <= 4)
(NTOP) -- Default: 4 ! NTOP = 4 !
 - Specific ranks of 'Top-N' values reported (NTOP values must be entered)
(ITOP(4) array) -- Default: ! ITOP = 1,2,3,4 !
1,2,3,4

- 4) Threshold exceedance counts for each receptor and each averaging time selected
[List file or Plot file]
(LEXCD) -- Default: F ! LEXCD = F !
 - Identify the threshold for each averaging time by assigning a non-negative value (output units).
 - Default: -1.0
 - Threshold for 1-hr averages (THRESH1) ! THRESH1 = -1.0 !
 - Threshold for 3-hr averages (THRESH3) ! THRESH3 = -1.0 !
 - Threshold for 24-hr averages (THRESH24) ! THRESH24 = -1.0 !
 - Threshold for NAVG-hr averages (THRESHN) ! THRESHN = -1.0 !

 - Counts for the shortest averaging period selected can be tallied daily, and receptors that experience more than NCOUNT counts over any NDAY period will be reported. This type of exceedance violation output is triggered only if NDAY > 0.

Accumulation period(Days)
(NDAY) -- Default: 0 ! NDAY = 0 !

Number of exceedances allowed
(NCOUNT) -- Default: 1 ! NCOUNT = 1 !

5) Selected day table(s)

Echo Option -- Many records are written each averaging period selected and output is grouped by day
[List file or Plot file]

(LECHO) -- Default: F ! LECHO = F !

Timeseries Option -- Averages at all selected receptors for each selected averaging period are written to timeseries files. Each file contains one averaging period, and all receptors are written to a single record each averaging time.

[TSERIES_ASPEC_ttHR_CONC_TSUNAM.DAT files]
(LTIME) -- Default: F ! LTIME = F !

Peak Value Option -- Averages at all selected receptors for each selected averaging period are screened and the peak value each period is written to timeseries files.

Each file contains one averaging period.

[PEAKVAL_ASPEC_ttHR_CONC_TSUNAM.DAT files]
(LPEAK) -- Default: F ! LPEAK = F !

-- Days selected for output

(IECHO(366)) -- Default: 366*0
! IECHO = 366*0 !
(366 values must be entered)

Plot output options

Plot files can be created for the Top-N, Exceedance, and Echo tables selected above. Two formats for these files are available, DATA and GRID. In the DATA format, results at all receptors are listed along with the receptor location [x,y,val1,val2,...].

In the GRID format, results at only gridded receptors are written, using a compact representation. The gridded values are written in rows (x varies), starting with the most southern row of the grid.

The GRID format is given the .GRD extension, and includes headers compatible with the SURFER(R) plotting software.

A plotting and analysis file can also be created for the daily peak visibility summary output, in DATA format only.

Generate Plot file output in addition to writing tables to List file?

(LPLT) -- Default: F ! LPLT = F !

Use GRID format rather than DATA format, when available?

(LGRD) -- Default: F ! LGRD = F !

Auxiliary Output Files (for subsequent analyses)

Visibility

A separate output file may be requested that contains the change in visibility at each selected receptor when ASPEC = VISIB. This file can be processed to construct visibility measures that are not available in CALPOST.

Output file with the visibility change at each receptor?
(MDVIS) -- Default: 0 ! MDVIS = 1 !

- 0 = Do Not create file
- 1 = Create file of DAILY (24 hour) Delta-Deciview
- 2 = Create file of DAILY (24 hour) Extinction Change (%)
- 3 = Create file of HOURLY Delta-Deciview
- 4 = Create file of HOURLY Extinction Change (%)

Additional Debug Output

Output selected information to List file
for debugging?
(LDEBUG) -- Default: F ! LDEBUG = F !

Output hourly extinction information to REPORT.HRV?
(Visibility Method 7)
(LVEXTHR) -- Default: F ! LVEXTHR = F !

!END!

NOTICE: Starting year in control file sets the
expected century for the simulation. All
YY years are converted to YYYY years in
the range: 1951 2050

```
*****  
*****  
CALPOST Version 6.221      Level 080724  
*****  
*****
```

CALPOST Control File Input Summary

Replace run data with data in Puff file 1=Y: 1
Run starting date -- year: 2001
month: 1
day: 1
Julian day: 0
Time at start of run - hour(0-23): 0
- minute: 0
- second: 0

Run ending date -- year: 2001
month: 12
day: 31
Julian day: 0
Time at end of run - hour(0-23): 0
- minute: 0
- second: 0

Base time zone (Group 1): 6.0

Every period of data processed -- NREP = 1

Species & Concentration/Deposition Information

Species: VISIB
Layer of processed data: 1
(>0=conc, -1=dry flux, -2=wet flux, -3=wet & dry flux)
Multiplicative scaling factor: 0.0000E+00
Additive scaling factor: 0.0000E+00
Hourly background values used?: F

SAMPLER option

Processing method: 0
0= SAMPLER option not used
1= Report total modeled impact (list file)
2= TRACEBACK mode (DAT files)
3= TRACEBACK mode with sampling factor (DAT files)

Source information

Source contribution processing: 0
0= No source contributions
1= Contributions are summed
2= TRACEBACK mode for 1 receptor
3= Reported TOTAL is processed

Receptor information

Gridded receptors processed?: F
Discrete receptors processed?: T
CTSG Complex terrain receptors processed?: F

Discrete Receptors Processed

0
0
1 1

Visibility Processing Selected

Visibility Options are Checked for FLAG 2008

Class I Area: BRET

Extinction Computation includes:

SULFATES

NITRATES

NO₂ GAS

Fraction CALPUFF NOx used as NO₂ : 1.000

ORGANIC CARBON

ELEMENTAL CARBON

COARSE PARTICLES

FINE PARTICLES

BACKGROUND

Particle f(RH) growth curve(s) : IMPROVE (2006) Tables

Max. RH % for particle growth (%): 95.000

Species name for modeled particulates

coarse: PMC

fine: PMF

Extinction Efficiency (1/Mm per ug/m**3)

ammonium sulfate S: 2.2000

ammonium sulfate L: 4.8000

ammonium nitrate S: 2.4000

ammonium nitrate L: 5.1000

organic carbon S: 2.8000

organic carbon L: 6.1000

sea salt: 1.7000

NO₂ gas: 0.1755

soil: 1.0000

elemental carbon: 10.0000

MODELED coarse PM: 0.6000

MODELED fine PM: 1.0000

BACKGRND coarse PM: 0.6000

Background Extinction Calculation Method 8

Method 8 Mode: 5

(24-hr avg conc. with monthly F(RH) data)

Monthly RH factor for small particles:

1 .4080E+01

2 .3820E+01

3 .3790E+01

4 .3740E+01

5 .3940E+01

6 .4120E+01

7 .4410E+01

8 .4370E+01

9 .4180E+01

10 .3920E+01

11 .3930E+01

12 .4060E+01

Monthly RH factor for large particles:

1 .2910E+01

2 .2760E+01

3 .2740E+01

4 .2720E+01
5 .2830E+01
6 .2940E+01
7 .3100E+01
8 .3070E+01
9 .2970E+01
10 .2820E+01
11 .2830E+01
12 .2900E+01

Monthly RH factor for sea salt:

1 .4100E+01
2 .3890E+01
3 .3870E+01
4 .3850E+01
5 .4020E+01
6 .4210E+01
7 .4440E+01
8 .4380E+01
9 .4230E+01
10 .3990E+01
11 .4010E+01
12 .4110E+01

Rayleigh scattering extinction (1/Mm): 11.00

Monthly background conc. (ug/m**3):

	(NH4)2SO4	(NH4)NO3	PM-C	OC	SOIL	EC	SEA SALT
1	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
2	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
3	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
4	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
5	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
6	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
7	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
8	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
9	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
10	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
11	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00
12	.2300E+00	.1000E+00	.3010E+01	.1780E+01	.4800E+00	.2000E-01	.1900E+00

Optional output file for visibility 1

Create file of DAILY (24 hour) Delta-Deciview

Output options

Units requested for output: (1/Mega-m)

Averaging time(s) selected

User-specified averaging time (hr:mm:ss): 0: 0: 0

1-pd averages: F

1-hr averages: F

3-hr averages: F

24-hr averages: T
User-specified averages: F
Length of run averages: F

Output components selected

Top-50: F
Top-N values at each receptor: F
Exceedance counts at each receptor: F
Output selected information for debugging: F
Echo tables for selected days: F
Time-series for selected days: F
Peak value Time-series for selected days: F

Plot file option

Plot files created: F

MAPSPEC: Species Mapping

Number of species-levels in file : 9

Number of species-levels processed: 10

Input ID	Processing ID	Name
1	1	SO2
2	2	SO4
3	3	NOX
4	4	HNO3
5	5	NO3
6	6	PMC
7	7	PMF
8	8	EC
9	9	SOA

Visibility Species

	Processing ID	Name
sulfate	2	SO4
no2gas	10	NO2
noxgas	3	NOX
nitrate	5	NO3
specpmf	7	PMF
specpmc	6	PMC
orgcarb	9	SOA
lmncarb	8	EC

IDENTIFICATION OF PROCESSED MODEL FILE -----

CALPUFF 5.8.4 130731

CLECO, Brame, Rodemacher II

ALM-step1

Repartitioning of NO3/HNO3

Averaging time for values reported from model:

1 HOUR

Number of averaging periods in file from model:

8752

Chemical species names for each layer in model:

SO2	1
SO4	1
NOX	1
HNO3	1
NO3	1
PMC	1
PMF	1
EC	1
SOA	1

QA Information -- Internal Representation of Data

CONTENTS OF CONTROL FILE -----

METRUN	= 1
(so times in model output file are used)	
isyr,ismo,isdy	= 2000 12 31
ishr,ismin,issec	= 23 0 0
ieyr,iemo,iedy	= 2001 12 31
iehr,ieimin,iesec	= 15 0 0
nper	= 8752
aspec,ilayer	=VISIB 1
aspvlv	=VISIB BOESNCFG
NO2CALC	= 1
RNO2NOX	= 1.0000000
MSOURCE	= 0
MCALMPRO	= 0
MET1FMT	= 1
LG,LD,LCT,LDRING	= F T F F
IBGRID,IEGRID	= -1 -1
JBGRID,JEGRID	= -1 -1
NDRECP	=
0 0	
0 0	
1 1	
a,b,LSCALE	= 0.0000000E+00 0.0000000E+00 F
LBACK	= F
MVISBK	= 8
MVISCHECK	= 1
AREANAME	=BRET
MFRH	= 4
RHMAX,BEXTRAY	= 95.0000000 11.0000000
RHFrac,BEXTBK	= 10.0000000 12.0000000
LVSO4,LVNO3,LVNO2	= T T T
LVOC,LVEC	= T T
LVPMC,LVPMF,LVBK	= T T T
SPECPMC,SPECPCM	=PMC PMF
EEMPC,EEMPF,EEMPCBK	= 0.600000024 1.000000000 0.600000024
EESO4,EENO3,EEOC	= 3.000000000 3.000000000 4.000000000
EESO4S,EENO3S,EEOCS	= 2.20000005 2.40000010 2.79999995
EESO4L,EENO3L,EEOCL	= 4.80000019 5.09999990 6.09999990

EESOIL,EEEC,EENO2 = 1.00000000 10.0000000 0.175500005
 navg,ntop = 0 4
 navgh,navgm,navgs = 0 0 0
 itop = 1 2 3 4
 L[1,3,24]HR = F F T
 LNAVG, LRUNL = F F
 LT50, LTOPN, LEXCD = F F F
 LECHO, LTIME, LPEAK = F F F
 THRESH1 = -1.00000000
 THRESH3 = -1.00000000
 THRESH24 = -1.00000000
 THRESHN = -1.00000000
 PLT, LGRD = F F
 MDVIS = 1
 LDEBUG = F
 LCTSG = F

CONTENTS OF HEADER OF MODEL OUTPUT FILE -----

model : CALPUFF 5.8.4 130731
 msyr,mjsday = 2000 366
 mshr,mssec = 23 0
 nsecdt (period) = 3600
 xbtz = 6.00000000
 mnper,nszout,mavgp = 8752 9 1
 xorigkm,yorigkm,nssta = -951.547058 -1646.63708 0
 ielmet,jelmet = 462 376
 delx,dely,nz = 4.00000000 4.00000000 1
 iastar,iastop,jastar,jastop = 288 451 117 274
 isastr,isastp,jsastr,jsastp = 1 462 1 376
 (computed) ngx,ngy = 462 376
 meshdn,npts,nareas = 1 1 0
 nlines,nvols = 0 0
 ndrec,nctrec,LSGRID = 120 0 F

Discrete Receptors (n,x,y,z):

1 270.325867 -617.518921 365.000000
 2 271.090393 -617.494019 365.000000
 3 271.854797 -617.469116 368.000000
 4 268.767273 -616.646362 411.000000
 5 269.531677 -616.621704 462.000000
 6 270.295959 -616.597046 431.000000
 7 271.060364 -616.572144 518.000000
 8 271.824768 -616.547241 487.000000
 9 272.589050 -616.522339 396.000000
 10 265.680481 -615.822632 518.000000
 11 266.444763 -615.798218 523.000000
 12 267.209045 -615.773682 548.000000
 13 267.973328 -615.749146 579.000000
 14 268.737610 -615.724487 547.000000
 15 269.501892 -615.699829 538.000000
 16 270.266174 -615.675049 640.000000
 17 271.030334 -615.650269 608.000000
 18 260.301697 -615.069458 335.000000
 19 261.065857 -615.045532 431.000000
 20 261.830139 -615.021606 457.000000
 21 262.594299 -614.997559 414.000000

22 263.358459 -614.973511 426.000000
23 264.122742 -614.949341 426.000000
24 264.886902 -614.924927 388.000000
25 265.651062 -614.900635 388.000000
26 266.415344 -614.876343 365.000000
27 267.179504 -614.851807 386.000000
28 267.943665 -614.827271 396.000000
29 268.707825 -614.802612 426.000000
30 269.471985 -614.777954 446.000000
31 270.236267 -614.753174 441.000000
32 271.000427 -614.728394 457.000000
33 271.764587 -614.703491 465.000000
34 272.528748 -614.678589 442.000000
35 273.293030 -614.653442 426.000000
36 260.272888 -614.147583 304.000000
37 261.036926 -614.123657 304.000000
38 261.801086 -614.099731 319.000000
39 262.565247 -614.075684 334.000000
40 263.329407 -614.051636 370.000000
41 264.093567 -614.027344 405.000000
42 264.857605 -614.003052 409.000000
43 265.621765 -613.978760 450.000000
44 266.385803 -613.954346 518.000000
45 267.149963 -613.929932 609.000000
46 267.914124 -613.905396 534.000000
47 268.678162 -613.880737 517.000000
48 269.442200 -613.856079 575.000000
49 270.206360 -613.831299 600.000000
50 270.970520 -613.806519 609.000000
51 271.734558 -613.781616 609.000000
52 272.498596 -613.756714 561.000000
53 261.008118 -613.201782 335.000000
54 261.772156 -613.177856 432.000000
55 262.536194 -613.153809 487.000000
56 263.300232 -613.129639 499.000000
57 264.064270 -613.105469 514.000000
58 264.828308 -613.081177 442.000000
59 265.592346 -613.056885 439.000000
60 266.356384 -613.032471 395.000000
61 267.120422 -613.007935 400.000000
62 267.884460 -612.983521 426.000000
63 268.648499 -612.958862 487.000000
64 269.412415 -612.934204 548.000000
65 270.176453 -612.909424 548.000000
66 270.940491 -612.884644 548.000000
67 271.704529 -612.859741 535.000000
68 261.743225 -612.255981 304.000000
69 262.507141 -612.231812 334.000000
70 263.271179 -612.207764 396.000000
71 264.035095 -612.183594 457.000000
72 264.799011 -612.159302 457.000000
73 265.563049 -612.135010 426.000000
74 266.326965 -612.110596 411.000000
75 267.090881 -612.086182 406.000000
76 267.854797 -612.061646 396.000000
77 268.618713 -612.036987 401.000000

78 269.382629 -612.012329 397.000000
79 261.714294 -611.334106 322.000000
80 262.478088 -611.309937 334.000000
81 777.710144 -1118.01306 0.00000000E+00
82 779.970764 -1115.93896 0.00000000E+00
83 780.696716 -1114.93750 0.00000000E+00
84 781.422424 -1113.93604 0.00000000E+00
85 785.606995 -1106.06689 0.00000000E+00
86 789.226868 -1101.05811 0.00000000E+00
87 789.783264 -1098.19727 0.00000000E+00
88 791.229431 -1096.19348 1.00000000
89 791.145813 -1095.26416 1.00000000
90 791.784729 -1093.33289 1.00000000
91 791.700989 -1092.40356 1.00000000
92 792.339539 -1090.47253 1.00000000
93 792.255920 -1089.54321 1.00000000
94 792.172058 -1088.61401 1.00000000
95 792.088196 -1087.68494 1.00000000
96 792.004456 -1086.75574 0.00000000E+00
97 791.920715 -1085.82666 0.00000000E+00
98 791.753235 -1083.96826 0.00000000E+00
99 792.558533 -1083.89575 1.00000000
100 792.474670 -1082.96667 1.00000000
101 791.585754 -1082.11023 0.00000000E+00
102 792.390930 -1082.03760 1.00000000
103 791.502014 -1081.18127 0.00000000E+00
104 792.307068 -1081.10864 1.00000000
105 791.418152 -1080.25220 1.00000000
106 791.334412 -1079.32324 1.00000000
107 790.445862 -1078.46667 0.00000000E+00
108 791.250549 -1078.39417 1.00000000
109 790.362244 -1077.53772 0.00000000E+00
110 791.166931 -1077.46521 1.00000000
111 790.278625 -1076.60876 0.00000000E+00
112 790.194885 -1075.67993 0.00000000E+00
113 790.111267 -1074.75098 1.00000000
114 789.223206 -1073.89453 0.00000000E+00
115 789.139709 -1072.96558 0.00000000E+00
116 788.251770 -1072.10913 0.00000000E+00
117 788.168274 -1071.18030 1.00000000
118 787.280823 -1070.32373 0.00000000E+00
119 786.393372 -1069.46704 0.00000000E+00
120 785.506165 -1068.61035 0.00000000E+00

Surface Met Station UTMs (n,x,y):

Control-file POINT Sources : 1
EMARB-file POINT Sources : 0
Control-file AREA Sources : 0
EMARB-file AREA Sources : 0
Control-file LINE Sources : 0
EMARB-file LINE Sources : 0
Control-file VOLUME Sources: 0
EMARB-file VOLUME Sources : 0

Source Names

UNIT 2

INPUT FILES

Default Name	Unit No.	File Name and Path
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CALPOST.INP	5	CT_RODE_DSI_01B_BRET.INP
MODEL.DAT	4	pu_rode_dsi_01b.flx

OUTPUT FILES

Default Name	Unit No.	File Name and Path
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CALPOST.LST	8	ct_rode_dsi_01b_bret.lst
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```
*****
*****  
CALPOST Version 6.221      Level 080724  
*****  
*****
```

24HR VISIBILITY

VISIB BOESNCFG

(1/Mega-m)

START TIME		Modeled Extinction by Species																		
Small	Large	SSalt	RECEPTOR	COORDINATES (km)	TYPE	BEXT(Model)	BEXT(BKG)	BEXT(Total)	%CHANGE	bxSO4	bxNO3	bxOC	bxEC	bxPMC	bxPMF	bxNO2	F(RH)	F(RH)	F(RH)	
2000	366	23	81	777.710 -1118.013	D	0.000	23.365	23.365	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000	0.000	4.060	2.900	4.110														
2001	123	81	777.710 -1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000	0.000	4.080	2.910	4.100														
2001	223	81	777.710 -1118.013	D	0.000	23.376	23.376	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.000	0.000	0.000	0.000	4.080	2.910	4.100														
2001	323	81	777.710 -1118.013	D	0.743	23.376	24.120	3.18	0.218	0.506	0.015									
0.000	0.000	0.001	0.003	4.080	2.910	4.100														
2001	423	120	785.506 -1068.610	D	0.830	23.376	24.206	3.55	0.332	0.468	0.024									
0.000	0.001	0.001	0.003	4.080	2.910	4.100														
2001	523	82	779.971 -1115.939	D	0.880	23.376	24.256	3.76	0.296	0.559	0.022									
0.000	0.001	0.001	0.001	4.080	2.910	4.100														
2001	623	120	785.506 -1068.610	D	0.002	23.376	23.378	0.01	0.001	0.001	0.000									
0.000	0.000	0.000	0.000	4.080	2.910	4.100														

2001	175	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2001	176	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2001	177	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2001	178	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2001	179	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2001	180	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2001	181	23	81	777.710	-1118.013	D	0.000	23.442	23.442	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.120	2.940	4.210							
2001	182	23	114	789.223	-1073.895	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	183	23	115	789.140	-1072.966	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	184	23	120	785.506	-1068.610	D	0.009	23.733	23.743	0.04	0.008	0.002	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	185	23	120	785.506	-1068.610	D	0.095	23.733	23.828	0.40	0.084	0.010	0.001
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	186	23	120	785.506	-1068.610	D	0.818	23.733	24.551	3.45	0.743	0.066	0.009
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	187	23	120	785.506	-1068.610	D	0.392	23.733	24.125	1.65	0.358	0.030	0.004
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	188	23	120	785.506	-1068.610	D	0.117	23.733	23.850	0.49	0.114	0.002	0.001
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	189	23	120	785.506	-1068.610	D	0.270	23.733	24.003	1.14	0.256	0.006	0.007
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	190	23	120	785.506	-1068.610	D	1.493	23.733	25.226	6.29	1.402	0.051	0.037
0.001	0.001	0.002	0.000	4.410	3.100	4.440							
2001	191	23	120	785.506	-1068.610	D	1.717	23.733	25.450	7.24	1.098	0.567	0.045
0.001	0.001	0.002	0.004	4.410	3.100	4.440							
2001	192	23	120	785.506	-1068.610	D	0.242	23.733	23.975	1.02	0.185	0.050	0.006
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	193	23	81	777.710	-1118.013	D	0.549	23.733	24.282	2.31	0.397	0.137	0.013
0.000	0.000	0.001	0.000	4.410	3.100	4.440							
2001	194	23	81	777.710	-1118.013	D	0.023	23.733	23.756	0.09	0.012	0.010	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	195	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	196	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	197	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	198	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	199	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	200	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	201	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	202	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							

2001	203	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	204	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	205	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	206	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	207	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	208	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	209	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	210	23	81	777.710	-1118.013	D	0.000	23.733	23.733	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	211	23	120	785.506	-1068.610	D	0.044	23.733	23.777	0.18	0.036	0.007	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	212	23	120	785.506	-1068.610	D	0.006	23.733	23.739	0.02	0.005	0.001	0.000
0.000	0.000	0.000	0.000	4.410	3.100	4.440							
2001	213	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	214	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	215	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	216	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	217	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	218	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	219	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	220	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	221	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	222	23	81	777.710	-1118.013	D	0.000	23.684	23.684	0.00	0.000	0.000	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	223	23	120	785.506	-1068.610	D	0.008	23.684	23.691	0.03	0.006	0.002	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	224	23	120	785.506	-1068.610	D	0.661	23.684	24.344	2.79	0.542	0.111	0.005
0.000	0.000	0.000	0.001	4.370	3.070	4.380							
2001	225	23	81	777.710	-1118.013	D	0.524	23.684	24.208	2.21	0.416	0.102	0.006
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	226	23	81	777.710	-1118.013	D	0.035	23.684	23.719	0.15	0.033	0.002	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	227	23	120	785.506	-1068.610	D	0.040	23.684	23.724	0.17	0.038	0.002	0.000
0.000	0.000	0.000	0.000	4.370	3.070	4.380							
2001	228	23	120	785.506	-1068.610	D	0.710	23.684	24.394	3.00	0.645	0.053	0.011
0.000	0.000	0.001	0.000	4.370	3.070	4.380							
2001	229	23	120	785.506	-1068.610	D	1.672	23.684	25.355	7.06	1.437	0.202	0.030
0.001	0.001	0.001	0.000	4.370	3.070	4.380							
2001	230	23	120	785.506	-1068.610	D	1.114	23.684	24.798	4.71	0.865	0.227	0.021
0.000	0.001	0.001	0.000	4.370	3.070	4.380							

0.001	0.001	0.002	0.000	4.410	3.100	4.440	4						
2001	90	23	81	777.710	-1118.013	D	1.444	23.085	24.530	6.26	0.562	0.845	0.033
0.001	0.001	0.001	0.002	3.790	2.740	3.870	5						
2001	88	23	81	777.710	-1118.013	D	1.351	23.085	24.436	5.85	0.714	0.610	0.024
0.000	0.001	0.001	0.001	3.790	2.740	3.870	6						
2001	334	23	120	785.506	-1068.610	D	1.287	23.235	24.523	5.54	0.573	0.684	0.026
0.000	0.001	0.001	0.001	3.930	2.830	4.010	7						
2001	230	23	120	785.506	-1068.610	D	1.114	23.684	24.798	4.71	0.865	0.227	0.021
0.000	0.001	0.001	0.000	4.370	3.070	4.380	8						
2001	333	23	120	785.506	-1068.610	D	0.981	23.235	24.216	4.22	0.480	0.470	0.027
0.000	0.001	0.001	0.002	3.930	2.830	4.010	9						
2001	335	23	120	785.506	-1068.610	D	0.962	23.365	24.327	4.12	0.595	0.347	0.019
0.000	0.001	0.001	0.000	4.060	2.900	4.110	10						
2001	5	23	82	779.971	-1115.939	D	0.880	23.376	24.256	3.76	0.296	0.559	0.022
0.000	0.001	0.001	0.001	4.080	2.910	4.100	11						
2001	4	23	120	785.506	-1068.610	D	0.830	23.376	24.206	3.55	0.332	0.468	0.024
0.000	0.001	0.001	0.003	4.080	2.910	4.100	12						
2001	186	23	120	785.506	-1068.610	D	0.818	23.733	24.551	3.45	0.743	0.066	0.009
0.000	0.000	0.000	0.000	4.410	3.100	4.440	13						
2001	52	23	81	777.710	-1118.013	D	0.748	23.114	23.862	3.24	0.457	0.271	0.018
0.000	0.001	0.001	0.001	3.820	2.760	3.890	14						
2001	3	23	81	777.710	-1118.013	D	0.743	23.376	24.120	3.18	0.218	0.506	0.015
0.000	0.000	0.001	0.003	4.080	2.910	4.100	15						
2001	228	23	120	785.506	-1068.610	D	0.710	23.684	24.394	3.00	0.645	0.053	0.011
0.000	0.000	0.001	0.000	4.370	3.070	4.380	16						
2001	362	23	120	785.506	-1068.610	D	0.659	23.365	24.024	2.82	0.274	0.373	0.010
0.000	0.000	0.000	0.000	4.060	2.900	4.110	17						
2001	224	23	120	785.506	-1068.610	D	0.661	23.684	24.344	2.79	0.542	0.111	0.005
0.000	0.000	0.000	0.001	4.370	3.070	4.380	18						
2001	35	23	81	777.710	-1118.013	D	0.555	23.114	23.669	2.40	0.168	0.374	0.012
0.000	0.000	0.001	0.000	3.820	2.760	3.890	19						
2001	34	23	120	785.506	-1068.610	D	0.552	23.114	23.667	2.39	0.235	0.305	0.011
0.000	0.000	0.001	0.000	3.820	2.760	3.890	20						
2001	193	23	81	777.710	-1118.013	D	0.549	23.733	24.282	2.31	0.397	0.137	0.013
0.000	0.000	0.001	0.000	4.410	3.100	4.440	21						
2001	225	23	81	777.710	-1118.013	D	0.524	23.684	24.208	2.21	0.416	0.102	0.006
0.000	0.000	0.000	0.000	4.370	3.070	4.380	22						

--- Number of days with Extinction Change => 5.0 % : 7

--- Number of days with Extinction Change => 10.0 % : 1

--- Largest Extinction Change = 10.06 %

CALPOST Version 6.221 Level 080724

Run-Length VISIBILITY

VISIB BOESNCFG

(1/Mega-m)

RECEPTOR COORDINATES (km) TYPE BEXT(Model) BEXT(BKG) BEXT(Total) %CHANGE

119 786.393 -1069.467 D 0.074 23.339 23.412 0.32

--- Number of recs with Extinction Change > 1.0 % : 0
--- Largest Extinction Change = 0.32 %

CALPOST Version 6.221 Level 080724

24HR VISIBILITY

VISIB BOESNCFG

(deciview)

START TIME % of Modeled Extinction by Species

Small Large SSalt

YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_NO2	F(RH)	F(RH)	F(RH)	
2000	366	23	81	777.710 -1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	4.060	2.900	4.110															
2001	123	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	4.080	2.910	4.100															
2001	223	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	4.080	2.910	4.100															
2001	323	81	777.710 -1118.013	D	8.804	8.491	0.313	29.31	68.10	1.98	0.03	0.06	0.09	0.43	4.080	2.910	4.100		
0.09	0.43	4.080	2.910	4.100															
2001	423	120	785.506 -1068.610	D	8.840	8.491	0.349	40.04	56.38	2.90	0.05	0.08	0.13	0.42	4.080	2.910	4.100		
0.13	0.42	4.080	2.910	4.100															
2001	523	82	779.971 -1115.939	D	8.861	8.491	0.369	33.64	63.52	2.54	0.04	0.07	0.11	0.07	4.080	2.910	4.100		
0.11	0.07	4.080	2.910	4.100															
2001	623	120	785.506 -1068.610	D	8.492	8.491	0.001	49.34	49.08	1.36	0.02	0.04	0.06	0.12	4.080	2.910	4.100		
0.06	0.12	4.080	2.910	4.100															
2001	723	120	785.506 -1068.610	D	8.553	8.491	0.062	17.59	76.25	0.59	0.01	0.02	0.03	5.52	4.080	2.910	4.100		
0.03	5.52	4.080	2.910	4.100															
2001	823	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100		
0.00	0.00	4.080	2.910	4.100															
2001	923	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100		
0.00	0.00	4.080	2.910	4.100															
2001	1023	81	777.710 -1118.013	D	8.493	8.491	0.001	55.74	41.80	1.79	0.03	0.05	0.08	0.49	4.080	2.910	4.100		
0.08	0.49	4.080	2.910	4.100															
2001	1123	81	777.710 -1118.013	D	8.499	8.491	0.007	55.43	42.26	1.69	0.03	0.05	0.08	0.46	4.080	2.910	4.100		
0.08	0.46	4.080	2.910	4.100															
2001	1223	81	777.710 -1118.013	D	8.491	8.491	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.080	2.910	4.100		
0.00	0.00	4.080	2.910	4.100															

2001	237	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380										
2001	238	23	120	785.506	-1068.610	D	8.623	8.622	0.001	80.06	17.92	1.75	0.03	
0.05	0.08	0.12	4.370	3.070	4.380									
2001	239	23	120	785.506	-1068.610	D	8.625	8.622	0.003	80.50	18.84	0.38	0.01	
0.01	0.02	0.24	4.370	3.070	4.380									
2001	240	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380										
2001	241	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380										
2001	242	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380										
2001	243	23	81	777.710	-1118.013	D	8.622	8.622	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.370	3.070	4.380										
2001	244	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	245	23	118	787.281	-1070.324	D	8.541	8.541	0.000	37.50	59.38	0.00	0.00	
0.00	0.00	1.22	4.180	2.970	4.230									
2001	246	23	120	785.506	-1068.610	D	8.569	8.541	0.028	82.03	17.85	0.09	0.00	
0.00	0.00	0.03	4.180	2.970	4.230									
2001	247	23	120	785.506	-1068.610	D	8.579	8.541	0.038	88.07	11.83	0.09	0.00	
0.00	0.00	0.00	4.180	2.970	4.230									
2001	248	23	120	785.506	-1068.610	D	8.547	8.541	0.006	93.27	6.65	0.07	0.00	
0.00	0.00	0.00	4.180	2.970	4.230									
2001	249	23	120	785.506	-1068.610	D	8.541	8.541	0.000	92.86	7.11	0.00	0.00	
0.00	0.00	0.00	4.180	2.970	4.230									
2001	250	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	251	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	252	23	120	785.506	-1068.610	D	8.542	8.541	0.001	69.20	30.69	0.12	0.00	
0.00	0.01	0.01	4.180	2.970	4.230									
2001	253	23	120	785.506	-1068.610	D	8.541	8.541	0.000	46.46	53.36	0.19	0.00	
0.00	0.00	0.00	4.180	2.970	4.230									
2001	254	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	255	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	256	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	257	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	258	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	259	23	120	785.506	-1068.610	D	8.542	8.541	0.001	87.68	10.18	1.96	0.03	
0.06	0.09	0.00	4.180	2.970	4.230									
2001	260	23	120	785.506	-1068.610	D	8.542	8.541	0.001	74.01	24.35	1.50	0.03	
0.04	0.07	0.00	4.180	2.970	4.230									
2001	261	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										
2001	262	23	120	785.506	-1068.610	D	8.680	8.541	0.139	78.71	18.48	2.54	0.04	
0.07	0.12	0.04	4.180	2.970	4.230									
2001	263	23	81	777.710	-1118.013	D	8.544	8.541	0.003	69.40	28.48	1.94	0.03	
0.05	0.09	0.00	4.180	2.970	4.230									
2001	264	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230										

2001	265	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	266	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	267	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	268	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	269	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	270	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	271	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	272	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	273	23	81	777.710	-1118.013	D	8.541	8.541	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.180	2.970	4.230											
2001	274	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	275	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	276	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	277	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	278	23	120	785.506	-1068.610	D	8.425	8.425	0.001	12.90	84.62	0.00	0.00		
0.00	0.00	2.43	3.920	2.820	3.990										
2001	279	23	81	777.710	-1118.013	D	8.425	8.425	0.000	28.62	70.23	0.00	0.00		
0.00	0.00	2.17	3.920	2.820	3.990										
2001	280	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	281	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	282	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	283	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	284	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	285	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	286	23	81	777.710	-1118.013	D	8.496	8.425	0.072	74.08	21.51	3.19	0.06		
0.09	0.14	0.93	3.920	2.820	3.990										
2001	287	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	288	23	120	785.506	-1068.610	D	8.453	8.425	0.028	62.59	33.28	3.77	0.07		
0.11	0.17	0.02	3.920	2.820	3.990										
2001	289	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	290	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	291	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											
2001	292	23	81	777.710	-1118.013	D	8.425	8.425	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.920	2.820	3.990											

2001	321	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	322	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	323	23	120	785.506	-1068.610	D	8.500	8.431	0.070	56.04	41.86	1.91	0.03		
0.05	0.09	0.01	3.930	2.830	4.010										
2001	324	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	325	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	326	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	327	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	328	23	120	785.506	-1068.610	D	8.466	8.431	0.035	56.86	36.13	5.60	0.10		
0.16	0.25	0.90	3.930	2.830	4.010										
2001	329	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	330	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	331	23	81	777.710	-1118.013	D	8.431	8.431	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	3.930	2.830	4.010											
2001	332	23	120	785.506	-1068.610	D	8.431	8.431	0.000	5.36	61.61	0.00	0.00		
0.00	0.00	27.83	3.930	2.830	4.010										
2001	333	23	120	785.506	-1068.610	D	8.844	8.431	0.413	48.92	47.93	2.70	0.05		
0.08	0.12	0.20	3.930	2.830	4.010										
2001	334	23	120	785.506	-1068.610	D	8.970	8.431	0.539	44.55	53.15	2.01	0.04		
0.06	0.09	0.10	3.930	2.830	4.010										
2001	335	23	120	785.506	-1068.610	D	8.890	8.486	0.404	61.80	36.08	1.93	0.03		
0.05	0.09	0.01	4.060	2.900	4.110										
2001	336	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	337	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	338	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	339	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	340	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	341	23	120	785.506	-1068.610	D	8.515	8.486	0.029	51.58	47.16	0.58	0.01		
0.02	0.03	0.62	4.060	2.900	4.110										
2001	342	23	81	777.710	-1118.013	D	8.531	8.486	0.044	55.13	43.32	0.95	0.02		
0.03	0.04	0.51	4.060	2.900	4.110										
2001	343	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	344	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	345	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	346	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110											
2001	347	23	84	781.422	-1113.936	D	8.697	8.486	0.211	35.09	58.93	3.38	0.06		
0.10	0.15	2.29	4.060	2.900	4.110										
2001	348	23	86	789.227	-1101.058	D	8.552	8.486	0.066	37.81	59.99	1.92	0.03		
0.05	0.09	0.11	4.060	2.900	4.110										

2001	349	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2001	350	23	91	791.701	-1092.404	D	8.544	8.486	0.058	70.59	25.28	3.39	0.06	
0.10	0.15	0.43	4.060	2.900	4.110									
2001	351	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2001	352	23	120	785.506	-1068.610	D	8.637	8.486	0.150	66.92	29.86	2.91	0.05	
0.08	0.13	0.04	4.060	2.900	4.110									
2001	353	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2001	354	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2001	355	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2001	356	23	81	777.710	-1118.013	D	8.522	8.486	0.036	12.57	85.37	0.00	0.00	
0.00	0.00	2.07	4.060	2.900	4.110									
2001	357	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2001	358	23	81	777.710	-1118.013	D	8.486	8.486	0.000	0.00	0.00	0.00	0.00	0.00
0.00	0.00	4.060	2.900	4.110										
2001	359	23	119	786.393	-1069.467	D	8.662	8.486	0.176	31.57	65.62	2.37	0.04	
0.07	0.11	0.23	4.060	2.900	4.110									
2001	360	23	120	785.506	-1068.610	D	8.514	8.486	0.027	29.31	68.58	1.92	0.03	
0.05	0.09	0.02	4.060	2.900	4.110									
2001	361	23	120	785.506	-1068.610	D	8.545	8.486	0.058	27.44	70.73	1.67	0.03	
0.05	0.08	0.01	4.060	2.900	4.110									
2001	362	23	120	785.506	-1068.610	D	8.764	8.486	0.278	41.62	56.65	1.57	0.03	
0.04	0.07	0.01	4.060	2.900	4.110									
2001	363	23	81	777.710	-1118.013	D	8.494	8.486	0.008	47.55	50.43	1.84	0.03	
0.05	0.08	0.02	4.060	2.900	4.110									

--- Ranked Daily Visibility Change ---

START TIME	% of Modeled Extinction by Species																					
	Small	Large	SSalt	YEAR	DAY	HR	RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV	%_SO4	%_NO3	%_OC	%_EC	%_PMC	%_PMF	%_NO2	F(RH)	F(RH)	F(RH)
2001 89 23 82	779.971	-1115.939	D	9.324	8.366	0.958	50.11	47.57	2.11	0.04	0.06		0.10	0.02	3.790	2.740	3.870	1				
2001 191 23 120	785.506	-1068.610	D	9.341	8.643	0.699	63.91	33.04	2.59	0.05			0.07	0.12	0.22	4.410	3.100	4.440	2			
2001 229 23 120	785.506	-1068.610	D	9.304	8.622	0.682	85.94	12.10	1.80	0.03			0.05	0.08	0.00	4.370	3.070	4.380	3			
2001 190 23 120	785.506	-1068.610	D	9.253	8.643	0.610	93.88	3.43	2.46	0.04			0.07	0.11	0.00	4.410	3.100	4.440	4			
2001 90 23 81	777.710	-1118.013	D	8.973	8.366	0.607	38.89	58.47	2.30	0.04	0.06		0.10	0.14	3.790	2.740	3.870	5				
2001 88 23 81	777.710	-1118.013	D	8.935	8.366	0.569	52.83	45.16	1.80	0.03	0.05		0.08	0.05	3.790	2.740	3.870	6				
2001 334 23 120	785.506	-1068.610	D	8.970	8.431	0.539	44.55	53.15	2.01	0.04			0.06	0.09	0.10	3.930	2.830	4.010	7			
2001 230 23 120	785.506	-1068.610	D	9.082	8.622	0.460	77.57	20.35	1.88	0.03			0.05	0.09	0.02	4.370	3.070	4.380	8			
2001 333 23 120	785.506	-1068.610	D	8.844	8.431	0.413	48.92	47.93	2.70	0.05			0.08	0.12	0.20	3.930	2.830	4.010	9			
2001 335 23 120	785.506	-1068.610	D	8.890	8.486	0.404	61.80	36.08	1.93	0.03												

0.05	0.09	0.01	4.060	2.900	4.110	10													
2001	5	23	82	779.971	-1115.939	D	8.861	8.491	0.369	33.64	63.52	2.54	0.04	0.07					
0.11	0.07	4.080	2.910	4.100	11														
2001	4	23	120	785.506	-1068.610	D	8.840	8.491	0.349	40.04	56.38	2.90	0.05	0.08					
0.13	0.42	4.080	2.910	4.100	12														
2001	186	23	120	785.506	-1068.610	D	8.982	8.643	0.339	90.79	8.05	1.06	0.02						
0.03	0.05	0.00	4.410	3.100	4.440	13													
2001	52	23	81	777.710	-1118.013	D	8.697	8.379	0.319	61.03	36.22	2.42	0.04	0.07					
0.11	0.12	3.820	2.760	3.890	14														
2001	3	23	81	777.710	-1118.013	D	8.804	8.491	0.313	29.31	68.10	1.98	0.03	0.06					
0.09	0.43	4.080	2.910	4.100	15														
2001	228	23	120	785.506	-1068.610	D	8.917	8.622	0.295	90.77	7.51	1.58	0.03						
0.04	0.07	0.00	4.370	3.070	4.380	16													
2001	362	23	120	785.506	-1068.610	D	8.764	8.486	0.278	41.62	56.65	1.57	0.03						
0.04	0.07	0.01	4.060	2.900	4.110	17													
2001	224	23	120	785.506	-1068.610	D	8.897	8.622	0.275	82.07	16.86	0.80	0.01						
0.02	0.04	0.20	4.370	3.070	4.380	18													
2001	35	23	81	777.710	-1118.013	D	8.616	8.379	0.237	30.31	67.34	2.14	0.04	0.06					
0.10	0.02	3.820	2.760	3.890	19														
2001	34	23	120	785.506	-1068.610	D	8.615	8.379	0.236	42.54	55.26	2.00	0.03						
0.06	0.09	0.02	3.820	2.760	3.890	20													
2001	193	23	81	777.710	-1118.013	D	8.872	8.643	0.229	72.38	24.96	2.38	0.04						
0.07	0.11	0.07	4.410	3.100	4.440	21													
2001	225	23	81	777.710	-1118.013	D	8.841	8.622	0.219	79.29	19.36	1.19	0.02						
0.03	0.05	0.05	4.370	3.070	4.380	22													

--- Number of days with Delta-Deciview => 0.50: 7

--- Number of days with Delta-Deciview => 1.00: 0

--- Largest Delta-Deciview = 0.958

CALPOST Version 6.221 Level 080724

Run-Length VISIBILITY

VISIB BOESNCFG

(deciview)

RECEPTOR	COORDINATES (km)	TYPE	DV(Total)	DV(BKG)	DELTA DV
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119	786.393 -1069.467	D	8.507	8.475	0.032
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--- Number of recs with Delta-Deciview > 0.10: 0

--- Largest Delta-Deciview = 0.032